

567—22.9 (455B) Special requirements for visibility protection.

22.9(1) Definitions. Definitions included in this subrule apply to the provisions set forth in rule 567—22.9(455B).

“Best available retrofit technology (BART)” means an emission limitation based on the degree of reduction achievable through the application of the best system of continuous emission reduction for each pollutant which is emitted by an existing stationary facility. The emission limitation must be established, on a case-by-case basis, taking into consideration the technology available, the costs of compliance, the energy and non-air quality environmental impacts of compliance, any pollution control equipment in use or in existence at the source, the remaining useful life of the source, and the degree of improvement in visibility which may reasonably be anticipated to result from the use of such technology.

“Deciview” means a haze index derived from calculated light extinction, such that uniform changes in haziness correspond to uniform incremental changes in perception across the entire range of conditions, from pristine to highly impaired. The deciview haze index is calculated based on an equation found in 40 CFR 51.301, as amended on July 1, 1999.

“Mandatory Class I area” means any Class I area listed in 40 CFR Part 81, Subpart D, as amended through October 5, 1989.

22.9(2) Best available retrofit technology (BART) applicability. A source shall comply with the provisions of subrule 22.9(3) if the source falls within numbers 1 through 20 or 22 through 26 of the “stationary source categories” of air pollutants listed in rule 22.100(455B) or is a fossil-fuel fired boiler individually totaling more than 250 million Btu’s per hour heat input and meets the following criteria:

- a. Any emission unit for which startup began after August 7, 1962; and
- b. Construction of the emission unit commenced on or before August 7, 1977; and
- c. The sum of the potential to emit, as “potential to emit” is defined in 567—20.2(455B), from emission units identified above is equal to or greater than 250 tons per year or more of one of the following pollutants: nitrogen oxides, sulfur dioxide, particulate matter (PM₁₀), or volatile organic compounds.

22.9(3) Duty to self-identify. The owner or operator or designated representative of a facility meeting the conditions of subrule 22.9(2) shall submit two copies of a completed BART Eligibility Certification Form #542-8125, which shall include all information necessary for the department to complete eligibility determinations. The information submitted shall include source identification, description of processes, potential emissions, emission unit and emission point characteristics, date construction commenced and date of startup, and other information required by the department. The completed form was required to be submitted to the Air Quality Bureau, Department of Natural Resources, 7900 Hickman Road, Suite 1, Windsor Heights, Iowa 50324, by September 1, 2005.

22.9(4) Notification. The department shall notify in writing the owner or operator or designated representative of a source of the department’s determination that either:

a. A source meets the conditions listed in 22.9(2) (a source that meets these conditions is BART-eligible); or

b. For the purposes of the regional haze program, a source may cause or contribute to visibility impairment in any mandatory Class I area, as identified during either:

(1) Regional haze plan development required by 40 CFR 51.308(d) as amended on July 6, 2005;

or

(2) A five-year periodic review on the progress toward the reasonable progress goals required by 40 CFR 51.308(g) as amended on July 6, 2005; or

(3) A ten-year comprehensive periodic revision of the implementation plan required by 40 CFR 51.308(f) as amended on July 6, 2005.

22.9(5) Analysis. The department may request in writing an analysis from the owner or operator or designated representative of a source that the department has determined may be causing or contributing to visibility impairment in a mandatory Class I area.

a. BART control analysis. For the purposes of BART, a source that is responsible for an impact of 1.0 deciview or more at a mandatory Class I area is considered to cause visibility impairment. A source that is responsible for an impact of 0.5 deciview or more at a mandatory Class I area is considered to contribute to visibility impairment. If a source meets either of these criteria, the owner or operator or designated representative shall prepare the BART analysis in accordance with Section IV of Appendix Y of 40 CFR Part 51 as amended through July 5, 2005, and shall submit the BART analysis 180 days after receipt of written notification by the department that a BART analysis is required.

b. Regional haze analysis. The owner or operator or designated representative of a source subject to 22.9(4) “b” shall prepare and submit an analysis after receipt of written notification by the department that an analysis is required.

22.9(6) Control technology implementation. Following the department’s review of the analysis submitted pursuant to 22.9(5), an owner or operator of a source identified in 22.9(4) shall:

a. Submit all necessary permit applications to achieve the emissions requirements established following the completion of analysis performed in accordance with 22.9(5).

b. Install, operate, and maintain the control technology as required by permits issued by the department.

22.9(7) BART exemption. The owner or operator of a source subject to the BART emission control requirements may apply for an exemption from subrule 22.9(5) in accordance with 40 CFR 51.303 as amended on July 1, 1999.